Name: Vignesh S

Regno: 192325002

Experiment: 38.Write a Python function to Count the number of faces for the given input image using Open CV.

Code:

```
import cv2

i = cv2.imread("face.jpg")

g = cv2.cvtColor(i, cv2.COLOR_BGR2GRAY)

fc = cv2.CascadeClassifier(cv2.data.haarcascades +

            "haarcascade_frontalface_default.xml")

f = fc.detectMultiScale(g, 1.3, 5)

print("Number of Faces Detected =", len(f))

for (x, y, w, h) in f:

    cv2.rectangle(i, (x, y), (x+w, y+h), (0, 255, 0), 2)

cv2.imshow("Face Count", i)

cv2.waitKey(0)

cv2.destroyAllWindows()
```
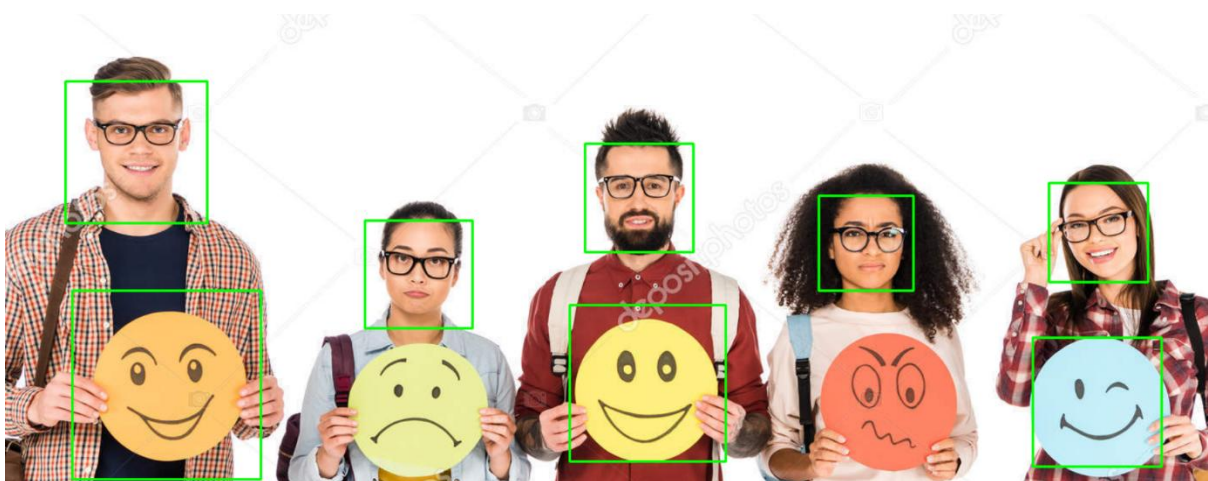
Input and Output:

Number of Faces Detected = 8Number of Faces Detected = 8